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UTILITY PATENT APPLICATION TRANSMITTAL
(under 37 CFR 1.53(b))

SIR:

Transmitted herewith for filing is the patent application entitled:
INFORMATION PROCESSING APPARATUS AND METHOD, INFORMATION PROCESSING SYSTEM,
AND TRANSMISSION MEDIUM

CERTIFICATION UNDER 37 CFR § 1.10

I hereby certify that this New Application and the documents referred to as enclosed herein are being deposited with the United States Postal Service on this date JULY 29, 1998, in an envelope bearing "Express Mail Post Office To Addressee" Mailing Label Number EM502815687US addressed to: Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

HOWARD WONG

(Name of person mailing paper)

(Signature)

Enclosed are:

1. ☒ Transmittal Form (two copies required)
2. The papers required for filing date under CFR § 1.53(b):
 - i. 35 Pages of specification (including claims and abstract);
 - ii. 8 Sheets of drawings.
☐ formal ☒ informal
3. Declaration or oath
 - a. ☒ (unsigned)
4. ☐ Microfiche Computer Program (Appendix, see 37 CFR 1.96)
5. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - i. ☐ Computer Readable Copy
 - ii. ☐ Paper Copy (identical to computer copy)
 - iii. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

6. ☐ An assignment of the invention to Sony Corporation is attached (including Form PTO-1595).
 - i. ☐ 37 CFR 3.73(b) Statement (when there is an assignee)
7. ☒ Power of Attorney
8. ☐ An Information Disclosure Statement (IDS) is enclosed, including a PTO-1449 and copies of ☐ references.
9. ☐ Preliminary Amendment.
10. ☒ Return Receipt Postcard (MPEP 503 -- should be specifically itemized)
11. ☐ Other
12. FOREIGN PRIORITY
☒ Priority of application no. P09-203055 filed on JULY 29, 1997 in JAPAN is claimed under 35 USC 119.

X is filed herewith; or
 has been filed in prior application no. filed on , or
 will be provided.

13. FEE CALCULATION

CLAIMS AS FILED

	Number Filed	Number Extra	Rate	Basic Fee (\$790)
Total Claims	11 - 20	0	x \$22.00	\$790
Independent Claims	9 - 3	6	x \$82.00	\$492
___ Multiple dependent claim(s), if any			\$270.00	

50% Filing Fee Reduction (if applicable) \$

a. ☐ A small entity statement is enclosed.

b. ☐ A small entity statement was filed in the prior nonprovisional application and such status is still proper and desired.

c. ☐ is no longer claimed.

Total Fees Enclosed \$1,282.00

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INFORMATION PROCESSING APPARATUS AND METHOD, INFORMATION
PROCESSING SYSTEM, AND TRANSMISSION MEDIUM

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to an information processing method and apparatus, an information processing system, and a transmission medium, and more particularly, to an information processing method, apparatus, system, and transmission medium that allow a user to store information user gets interested in regardless of where the user is and that allow the user to acquire information associated with the stored information on the basis of the stored information.

2. Description of the Related Art

When one watches a television program or listens to a radio program, he/she often wants to know the title, the name of the singer, or other information about music being played in the program.

In the FM radio broadcasting, a "visual radio" is known in the art in which available spaces between the carrier frequencies are used to transmit textual information about the music being broadcasted in the main programs so that listeners can get the information about

the music. In the case of ground wave television broadcasting, the listeners can download the information about the music being broadcasted, using an intercast.

However, different terminals depending on the broadcasts are needed to get information about the music, such as the title or the singer's name. This limits the situation or environment in which the user can get the information. For example, it is practically impossible to get associated information when the user is outdoor.

In view of the above, the object of the present invention is to provide a technique to quickly and easily acquire associated information.

SUMMARY OF THE INVENTION

According to an aspect of the present invention, as defined in Claim 1, there is provided an information processing apparatus comprising: capture means for capturing information; memory means for storing information captured via the capture means; acquisition means for acquiring information associated with the information stored in the memory means on the basis of the information stored in the memory means; and display means for displaying the information acquired via the acquisition means.

According to another aspect of the present invention,

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as defined in Claim 4, there is provided an information processing method comprising the steps of: capturing information; storing the information captured in the capture step; acquiring associated information on the basis of the information stored in said storage step; and displaying the information acquired in said acquisition step.

According to still another aspect of the present invention, as defined in Claim 5, there is provided a transmission medium for transmitting a program comprising: capturing information; storing the information captured in the capture step; acquiring associated information on the basis of the information stored in said storage step; and displaying the information acquired in said acquisition step.

According to still another aspect of the present invention, as defined in Claim 6, there is provided an information processing apparatus comprising: reception means for receiving information from a portable type information processing apparatus; judgement means for judging whether the information received via the reception means includes an identification code in a predetermined form associated with the information; and transmission means for transmitting information associated with the information indicated by the identification code to the

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portable type information processing apparatus, depending on the judgement result made by the judgement means.

According to still another aspect of the present invention, as defined in Claim 7, there is provided an information processing method comprising the steps of: receiving information from a portable type information processing apparatus; judging whether the information received in the reception step includes an identification code in a predetermined form associated with the information; and transmitting information associated with the information indicated by the identification code to the portable type information processing apparatus, depending on the judgement result made in the judgement step.

According to still another aspect of the present invention, as defined in Claim 8, there is provided a transmission medium for transmitting a program comprising the steps of: receiving information from a portable type information processing apparatus; judging whether the information received in the reception step includes an identification code in a predetermined form associated with the information; and transmitting information associated with the information indicated by the identification code to the portable type information processing apparatus, depending on the judgement result

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made in the judgement step.

According to still another aspect of the present invention, as defined in Claim 9, there is provided an information processing system including a first and second information processing apparatus, wherein said first information processing apparatus comprises: capture means for capturing information; memory means for storing information captured via the capture means; acquisition means for acquiring information associated with the information stored in the memory means on the basis of the information stored in the memory means; and display means for displaying the information acquired via the acquisition means; and the second information processing apparatus comprises: reception means for receiving information from the first information processing apparatus; judgement means for judging whether the information received via the reception means includes an identification code in a predetermined form associated with the information; and transmission means for transmitting information associated with the information indicated by the identification code to the first information processing apparatus, depending on the judgement result made by the judgement means.

According to still another aspect of the present invention, as defined in Claim 10, there is provided an

information processing method characterized in that a first information processing apparatus performs a process comprising the steps of: capturing information; storing the information captured in the capture step; acquiring associated information on the basis of the information stored in the storage step; and displaying the information acquired in the acquisition step; and a second information processing apparatus performs a process comprising the steps of: receiving information from the first information processing apparatus; judging whether the information received in the reception step includes an identification code in a predetermined form associated with the information; and transmitting information associated with the information indicated by the identification code to the first information processing apparatus, depending on the judgement result made in the judgement step.

According to still another aspect of the present invention, as defined in Claim 11, there is provided a transmission medium for transmitting a program in accordance with which the first information processing apparatus performs a process comprising the steps of: capturing information; storing the information captured in the capture step; acquiring associated information on the basis of the information stored in the storage step; and displaying the information acquired in the acquisition

step; and the second information processing apparatus performs a process comprising the steps of: receiving information from the first information processing apparatus; judging whether the information received in the reception step includes an identification code in a predetermined form associated with the information; and transmitting information associated with the information indicated by the identification code to the first information processing apparatus, depending on the judgement result made in the judgement step.

In the portable type information processing apparatus according to the aspect corresponding to Claim 1, the information processing method according to the aspect corresponding to Claim 4, and the transmission medium according to the aspect corresponding to the Claim 5, information is captured and the captured information is stored so that information associated with the stored information can be acquired on the basis of the stored information and the acquired information is displayed.

In the information processing apparatus according to the aspect corresponding to Claim 6, the information processing method according to the aspect corresponding to Claim 7, and the transmission medium according to the aspect corresponding to the Claim 8, information is received from a portable type information apparatus and it

is judged whether the received information includes an identification code in a predetermined form associated with the information. Depending on the judgement result, information associated with the information indicated by the identification code is transmitted to the portable type information processing apparatus.

In the information processing system according to the aspect corresponding to Claim 9, the information processing method according to the aspect corresponding to Claim 10, and the transmission medium according to the aspect corresponding to Claim 11, the first information processing apparatus performs the process comprising the steps of: capturing information; storing the captured information; acquiring associated information on the basis of the stored information; and displaying the acquired information; and the second information processing apparatus performs the process comprising the steps of: receiving information from the first information processing apparatus; judging whether the received information includes an identification code in a predetermined form associated with the information; and transmitting information associated with the information indicated by the identification code to the first information processing apparatus, depending on the judgement result.

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BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic diagram illustrating an embodiment of an information processing system according to the present invention;

Fig. 2 is a block diagram illustrating the construction of the terminal shown in Fig. 1;

Fig. 3 is a flowchart illustrating the process of storing information;

Fig. 4 is a schematic diagram illustrating an example of information incorporated into music;

Fig. 5 is a flowchart illustrating the process of acquiring detailed information;

Fig. 6 is a flowchart illustrating another process of storing information;

Fig. 7 is a flowchart illustrating another process of acquiring detailed information; and

Fig. 8 is a block diagram illustrating another example of the construction of the terminal shown in Fig. 1.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Before describing the preferred embodiments of the invention, a description of the aspects of the invention is first given in which an example of element corresponding to each means is described in parentheses

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following the description of the means. However, it is not intended to limit the means to those described. Herein, the term "system" is used to describe a total system including a plurality of apparatus, devices, and/or means.

The portable type information processing apparatus according to the aspect corresponding to Claim 1 includes capture means (for example step S11 in Fig. 3) for capturing information; memory means (for example step S14 in Fig. 3) for storing information captured via the capture means; acquisition means (for example step S21 in Fig. 5) for acquiring information associated with the information stored in the memory means on the basis of the information stored in the memory means; and display means (for example step S24 in Fig. 5) for displaying the information acquired via the acquisition means.

The acquisition means of the portable type information processing apparatus according to the aspect corresponding to Claim 2 includes transmission means (for example step S21 in Fig. 5) for transmitting the information stored in the memory means to another information processing apparatus; and reception means (for example step S24 in Fig. 5) for receiving the associated information from another information processing apparatus described above.

The acquisition means of the portable type information processing apparatus according to the aspect corresponding to Claim 3 includes storage means (for example information storage device 61 shown in Fig. 8) for storing the acquired information.

The information processing apparatus according to the aspect corresponding to Claim 6 includes reception means (for example step S21 in Fig. 5) for receiving information from the portable type information processing apparatus; judgement means (for example step S22 in Fig. 5) for judging whether the information received via the reception means includes an identification code in a predetermined form associated with the information; and transmission means (for example step S29 in Fig. 5) for transmitting information associated with the information indicated by the identification code to the portable type information processing apparatus, depending on the judgement result made by the judgement means.

In the information processing system according to the aspect corresponding to Claim 9, the first information processing apparatus comprises: capture means (for example step S11 in Fig. 3) for capturing information; memory means (for example step S14 in Fig. 3) for storing information captured via the capture means; acquisition means (for example step S21 in Fig. 5) for acquiring

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information associated with the information stored in the memory means on the basis of the information stored in the memory means; and display means (for example step S24 in Fig. 5) for displaying the information acquired via the acquisition means; and the second information processing apparatus comprises: reception means (for example step S21 in Fig. 5) for receiving information from the first information processing apparatus; judgement means (for example step S22 in Fig. 5) for judging whether the information received via the reception means includes an identification code in a predetermined form associated with the information; and transmission means (for example step S29 in Fig. 5) for transmitting information associated with the information indicated by the identification code to the first information processing apparatus, depending on the judgement result made by the judgement means.

Fig. 1 is a schematic diagram illustrating the construction of an information system according to the present invention. A server 15 includes a database 10 storing detailed information. A communication device 30 is an apparatus by which a terminal 35 and the server 15 can communicate with each other via a network 20 including telephone lines or private lines.

In the case where a PHS (Personal Handy-Phone System)

or a PDC (Personal Digital Cellular) or the like is employed to realize the terminal 35, the terminal 35 itself has the communication capability and thus the communication device 30 is not necessary.

Fig. 2 is a block diagram illustrating the construction of the terminal 35. This terminal 35 includes a communication device 40 that makes it possible for the terminal to directly communicate with the server 15. A display device 41 indicates various kinds of information. An input/output device 42 includes a microphone for inputting music or other information, a loudspeaker for outputting music or other information, and buttons used to operate the terminal 35. A controller 43 controls various elements of the terminal 35 and is realized, for example, with a CPU (Central Processing Unit). A memory 44 is realized, for example, with a RAM (Random Access Memory) and serves to temporarily store information input via the input/output device 42.

A processor 45 includes a filter for reducing noise contained in the information stored in the memory 44 and also includes a circuit for extracting desired data from the information. The information processed by the processor 45 is transferred to a storage device 46. The storage device 46 stores the information received from the processor 45 and also information received via the

communication device 40. The storage device 46 may be realized with either a removable storage medium such as a floppy disk or a fixed storage medium. The constituent elements described above are connected to each other via a bus 47.

The operation of the terminal 35 shown in Fig. 2 is described below with reference to the flowchart shown in Fig. 3. We assume herein that a user carrying a terminal 35 happens to hear some music, for example, in a coffee shop and gets interested in that music.

In step S11, the input/output device 42 of the terminal 35 is operated. The input/output device 42 includes a recording button which is pressed by a user to record music and also includes a microphone for inputting music. If this button is pressed in step S11, then music is input via the microphone.

In step S12, the controller 43 records, into the memory 44, the music input via the input/output device 42 when the recording button is being pressed. In such a situation, the music may be directly recorded in the memory 44 or a tune whistled or hummed by the user may be recorded.

In step S13, the processor 45 reads the music data from the memory 44 and performs a predetermined process on it. More specifically, noise included in the music data

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The series of data 51 can be incorporated into music

using a data hiding technique. The data hiding technique is reviewed, for example, in Nikkei Electronics, No. 2-24 (1997), pp. 149-162 and also in No. 3-10, (1997), pp. 153-168. This technique has some variations depending on whether the data is hidden using phase, echo, or sound difference. The processor 45 should include a circuit adapted to the specific data hiding technique so that the series of data 51 incorporated in music is corrected extracted.

If the data hiding technique is used, it is possible to incorporate all information representing the title of music, the name of the singer, the name of the album and other items associated with the music. However, if a great amount of information is incorporated into music, then the music contains a great amount of noise component. This problem can be avoided by limiting the information incorporated in music to only the information identifying the music whereby the music can be retrieved later using that information. For example, the music identification code 54 may be represented in accordance with the ISRC (International Standard Recording Code) established in 1986 (ISO3901). For further information about the ISRC, refer to ISO3901 or the ISRC Operation Standard issued by Recording Industry Association of Japan. In the ISRC, a particular code is assigned to each music so that any

music can be identified by the ISRC. Each ISRC consists of a string of 12 alphanumeric characters.

Each recording company provides information such as the title, singers name, composer's name, songwriter's name, genre, etc., associated with the ISRC. Therefore, if such information is stored in relation to the ISRC in the database 10 (Fig. 1), then it becomes possible to retrieve detailed information associated with desired music using the ISRC. In the following description, it is assumed that the music identification code 54 is represented by the ISRC.

In the case where an ISRC is detected in step S13, the processor 45 transfers, in step S14, the detected ISRC to the storage device 47 and stores it thereon. On the other hand, if no ISRC is detected in step S13 (that is, if no ISRC is incorporated in music), the processor 45 transfers, in step S14, music to the storage device 47 and stores it thereon. As a result, the music containing no noise or the ISRC is stored in the storage device 46 (hereinafter the information stored in the storage device 46 is referred to as raw information). Information representing the date and time when the above information is stored is extracted from the timer provided in the controller 43. The extracted date/time information is transferred to the storage device 46 and stored thereon

together with the raw information. Alternatively, by operating the input/output device 42, the user himself/herself may input information representing the date and time when he/she listened to the music so that the date/time information is stored together with the raw information on the storage device 46.

When the user records music, if the user inputs via the input/output device 42 information about the medium (for example, television, radio, etc.) in which the music is played, then that information is also stored together with the music. Although it is not necessarily required that the user should input this information, the information can also be used to identify the music if it is stored.

Fig. 5 is a flowchart illustrating the process of acquiring information associated with the music on the basis of the raw information stored in the storage device 46. This process starts when the user operates a particular button of the input/output device 42.

In step S21, the controller 43 of the terminal 35 transmits one of the raw information stored on the storage device 46 from the communication device 40 to the server 15 via the network 20.

In step S22, the server 15 determines whether the received raw information includes an ISRC. If no ISRC is

included, that is, if music (melody) itself is received, the process goes to step S23 and music expected to have the same melody as the received music is searched for from the database 10. The information such as the title, the singer's name, etc., associated with the retrieved music is transmitted to the terminal 35.

If the received music includes additional information about the date/time or the media, the information is used in the retrieval. For example, the additional information includes "January 1", "8 a.m.", and "television", then the music file of the database 10 including music broadcasted on television, 8 a.m., January 1 is searched. This causes the search to be narrowed and thus a smaller number of candidates are retrieved in a shorter time.

In step S24, if the controller 43 of the terminal 35 receives candidates from the server 15 via the communication device 40, the controller 43 displays them on the display device 41 and waits for the user to select one of the received candidates via the input/output device 42.

In step S25, the controller 43 transmits a candidate selected by the user to the server 15. In step S26, the server 15 retrieves detailed information corresponding to the received candidate from the database 10 and transmits it to the terminal 35. This detailed information includes

the music itself.

In the terminal 35, the received music data is supplied to the input/output device 42 and output via the loudspeaker. In step S27, the user listens to the music and judges whether the music is desired one. The user inputs the judgment result to the terminal via the input/output device 42. The controller 43 performs a proper process depending on the information input via the input/output device 42. More specifically, if the user judges that the music is not the desired one and inputs the judgement result via the input/output device 42, then the controller 43 returns the process to step S24 and again displays the candidates on the display device 41. In this case, the candidate whose detailed information has already been received is displayed in a color different from the color for the other candidates or is not displayed at all.

Steps from 24 to 27 are performed repeatedly until the user gets detailed information associated with the desired music.

On the other hand, if the user judges in step S27 that the music is the desired one and inputs that judgement result via the input/output device 42, then the controller 43 stores the detailed information received on the storage device 46.

If the server 15 determines in step S22 that the received raw information is an ISRC, then the process goes to step S29. In step S29, the server 15 retrieves detailed information corresponding to the received ISRC from the database 10 and transmits it to the terminal 35.

The process then goes to step S28, and the controller 43 stores the received detailed information on the storage device 46. In this case, the title of the music is displayed on the display device 41. The detailed information transmitted from the server 15 to the terminal 35 includes not only music data but also other information such as the title of the music. In the case where only the title of the music is required, only the title may be transmitted.

The above-described process of acquiring the detailed information is started when the user properly operates the input/output device 42. In the case where the storage device 46 includes two or more pieces of raw information, the process from step S21 to step S29 is performed for each raw information and the process is repeated until all pieces of raw information are replaced with the corresponding detailed information.

Figs. 6 and 7 are flowcharts illustrating another method of acquiring detailed information. First, in step S31 shown in Fig. 6, the input/output device 42 of the

terminal 35 is operated and music is input via it. In step S32, the controller 43 temporarily stores the input music in the memory 44. Then in step S33, the processor 45 reads the music from the memory 44 and suppresses noise contained in it. Furthermore, the processor 45 extracts an ISRC therefrom. In step S34, the controller transmits the extracted ISRC or the music (raw information) itself to the server 15.

In step S35, the server 15 determines whether the received raw information includes an ISRC. If no ISRC is included in the received raw information, that is, if music (melody) itself is received, the process goes to step S36 and music expected to have the same melody as the received music is searched for from the database 10. The candidates (associated information) obtained as a result of the retrieval is transmitted to the terminal 35.

In step S37, the controller 43 of the terminal 35 stores all received candidates on the storage device 46.

On the other hand, in the case where the server 15 determines in step S35 that the received raw information includes an ISRC, the process goes to step S38. In step S38, the server 15 retrieves detailed information corresponding to the received ISRC from the database 10 and transmits it to the terminal 35. In the terminal 35, the detailed information received is, in step S37, stored

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on the storage device 46.

The above-described process from step S31 to S38 is performed each time the user records music.

Fig. 7 is a flowchart illustrating the process of acquiring detailed information from candidates stored on the storage device 46. The user can, at any time when the user wants, operate the input/output device 42 of the terminal 35 so as to start the following process. If the command to start the process is given, the controller 43 of the terminal 35 retrieves candidates from the storage device 46. The controller 43 displays the retrieved candidates on the display device 41 and waits for the user to select one of them via the input/output device 42. Steps from S42 to S45 following the above process are similar to those from S25 to S28 shown in Fig. 5, and thus they are not described here in further detail.

Although in the above-described embodiments communication between the terminal 16 and the server 16 is performed via the network 20, communication may also be performed in any another way. Furthermore, instead of the ISRC system, information incorporated into music may also be represented by any other code system.

Fig. 8 is a block diagram illustrating another example of the construction of the terminal. This construction is similar to that shown in Fig. 2 except

that the communication device 40 is replaced with an information storage device 61. The information storage device 61 stores detailed information associated with music. Therefore, it is possible to get detailed information by searching the information storage device 61 without having to communicate with the server 15. The information storage device 61 may be realized using, for example, an IC card that may be removably attached to the terminal 35. A plurality of information storage devices may be prepared so that each information storage device includes detailed information categorized by singers, genre, etc. Therefore, it is possible to get detailed information in any desired category by attaching a proper card to the terminal. The information stored in the information storage device 61 may be updated via the network 20 or other communication media at proper intervals such as every week, every month, etc.

The terminal 35 shown in Fig. 2 or 8 may further have the capability of giving a notice to the user if the same music is recorded twice or more times on the storage device 46. This capability allows the user to find his/her favorite music.

Although in the embodiments described above it is assumed that the information recorded on the terminal 35 is music, the present invention may also be applied to any

other type of information.

A program used to perform the above-described process may be stored on a storage medium such as a floppy disk or a CD-ROM and distributed to users. Alternatively, the program may also be distributed to users by transmitting the program via a transmission medium such as a communication network thereby storing the program on user's hard disk or memory.

As can be understood from the above description, the present invention has various advantages. That is, in the information processing apparatus according to the aspect corresponding to Claim 1, the information processing method according to the aspect corresponding to Claim 4, and the communication medium according to the aspect corresponding to Claim 5, the user can acquire information associated with the information stored by the user. This allows the user to easily and quickly obtain desired information.

In the information processing apparatus according to the aspect corresponding to Claim 6, the information processing method according to the aspect corresponding to Claim 7, and the communication medium according to the aspect corresponding to Claim 8, the information stored by the user on the portable type information processing apparatus is transmitted to another information processing

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device, which in turn returns information associated with the received information to the portable type information processing apparatus. This allows the user to easily and quickly to obtain desired information.

In the information processing system according to the aspect corresponding to Claim 9, the information processing method according to the aspect corresponding to Claim 10, and the communication medium according to the aspect corresponding to Claim 11, the second information processing apparatus retrieves the information associated with the information stored by the user on the first information processing apparatus, and transmits the resultant information to the first information processing apparatus. This allows the user to easily and quickly to obtain desired information.

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WHAT IS CLAIMED IS:

1. A portable type information processing apparatus adapted to exchange information with another information processing apparatus, comprising:

capture means for capturing information;

memory means for storing information captured via said capture means;

acquisition means for acquiring information associated with the information stored in said memory means on the basis of the information stored in said memory means; and

display means for displaying the information acquired via said acquisition means.

2. A portable type information processing apparatus according to Claim 1, wherein said acquisition means comprises:

transmission means for transmitting the information stored in said memory means to said another information processing apparatus; and

reception means for receiving the associated information from said another information processing apparatus.

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3. A portable type information processing apparatus according to Claim 1, wherein said acquisition means includes storage means for storing the acquired information.

4. A method of processing information with a portable type information processing apparatus adapted to exchange information with another information processing apparatus, said method comprising the steps of:

capturing information;

storing the information captured in said capture step;

acquiring associated information on the basis of the information stored in said storage step; and

displaying the information acquired in said acquisition step.

5. A transmission medium for transmitting a program to a portable type information processing apparatus adapted to exchange information with another information processing apparatus, said program comprising the steps of:

capturing information;

storing the information captured in said capture step;

acquiring associated information on the basis of the information stored in said storage step; and
displaying the information acquired in said acquisition step.

6. An information processing apparatus adapted to exchange information with a portable type information processing apparatus, comprising:

reception means for receiving information from said portable type information processing apparatus;

judgement means for judging whether the information received via said reception means includes an identification code in a predetermined form associated with the information; and

transmission means for transmitting information associated with the information indicated by said identification code to said portable type information processing apparatus, depending on the judgement result made by said judgement means.

7. A method of processing information with an information processing apparatus adapted to exchange information with a portable type information processing apparatus, said method comprising the steps of:

receiving information from said portable type

information processing apparatus;

judging whether the information received in said reception step includes an identification code in a predetermined form associated with the information; and

transmitting information associated with the information indicated by said identification code to said portable type information processing apparatus, depending on the judgement result made in said judgement step.

8. A transmission medium for transmitting a program to an information processing apparatus adapted to exchange information with a portable type information processing apparatus, said program comprising the steps of:

receiving information from said portable type information processing apparatus;

judging whether the information received in said reception step includes an identification code in a predetermined form associated with the information; and

transmitting information associated with the information indicated by said identification code to said portable type information processing apparatus, depending on the judgement result made in said judgement step.

9. An information processing system including a first portable type information processing apparatus and a

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second information apparatus adapted to exchange information with said first information processing apparatus, wherein

said first information processing apparatus comprises:

capture means for capturing information;

memory means for storing information captured via said capture means;

acquisition means for acquiring information associated with the information stored in said memory means on the basis of the information stored in said memory means; and

display means for displaying the information acquired via said acquisition means; and

said second information processing apparatus comprises:

reception means for receiving information from said first information processing apparatus;

judgement means for judging whether the information received via said reception means includes an identification code in a predetermined form associated with the information; and

transmission means for transmitting information associated with the information indicated by said identification code to said first information processing

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information indicated by said identification code to said first information processing apparatus, depending on the judgement result made in said judgement step.

11. A transmission medium for transmitting a program to an information processing system including a first portable type information processing apparatus and a second information apparatus adapted to exchange information with said first information processing apparatus, wherein

said first information processing apparatus performs a process comprising the steps of:

capturing information;

storing the information captured in said capture step;

acquiring associated information on the basis of the information stored in said storage step; and

displaying the information acquired in said acquisition step; and

said second information processing apparatus performs a process comprising the steps of:

receiving information from said first information processing apparatus;

judging whether the information received in said reception step includes an identification code in a

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predetermined form associated with the information; and

transmitting information associated with the information indicated by said identification code to said first information processing apparatus, depending on the judgement result made in said judgement step.

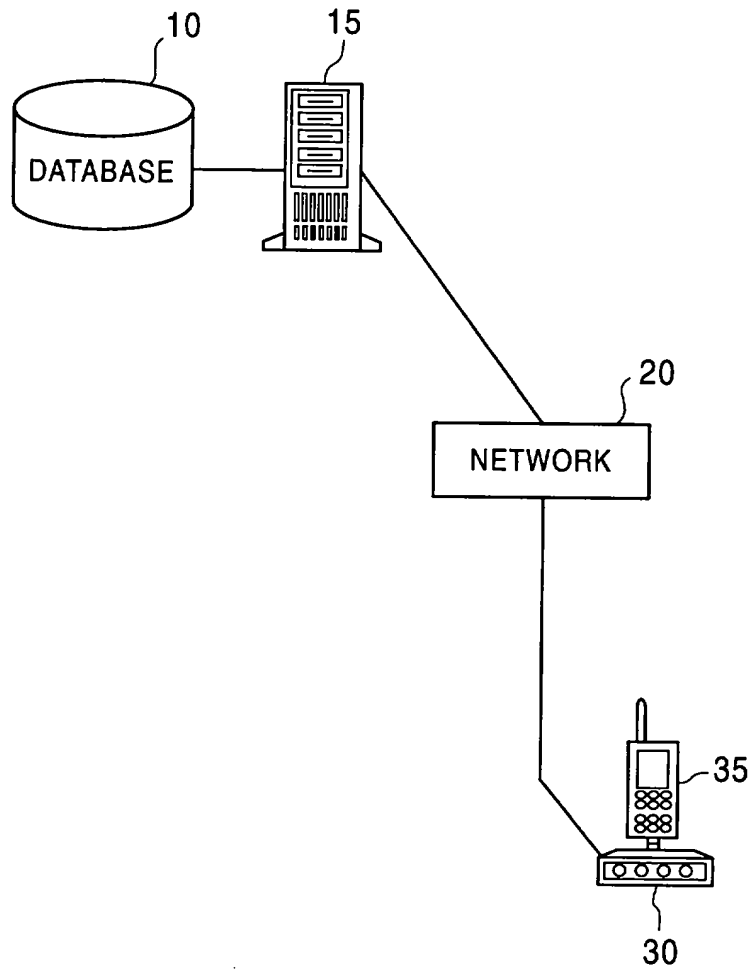
0912500 072999

ABSTRACT OF THE DISCLOSURE

When a user gets interested in some music he/she listens to somewhere, for example, in a coffee shop, the user records that music in a memory provided in a portable terminal. A processor reads the information stored in the memory and performs a predetermined process on it. The resultant information is stored on a storage device. The information stored on the storage device is then transferred to a server via a communication device. The server searches the database for the title of the music corresponding to the received information, and returns the result to the terminal. Thus, the user can easily get information about the title of the music.

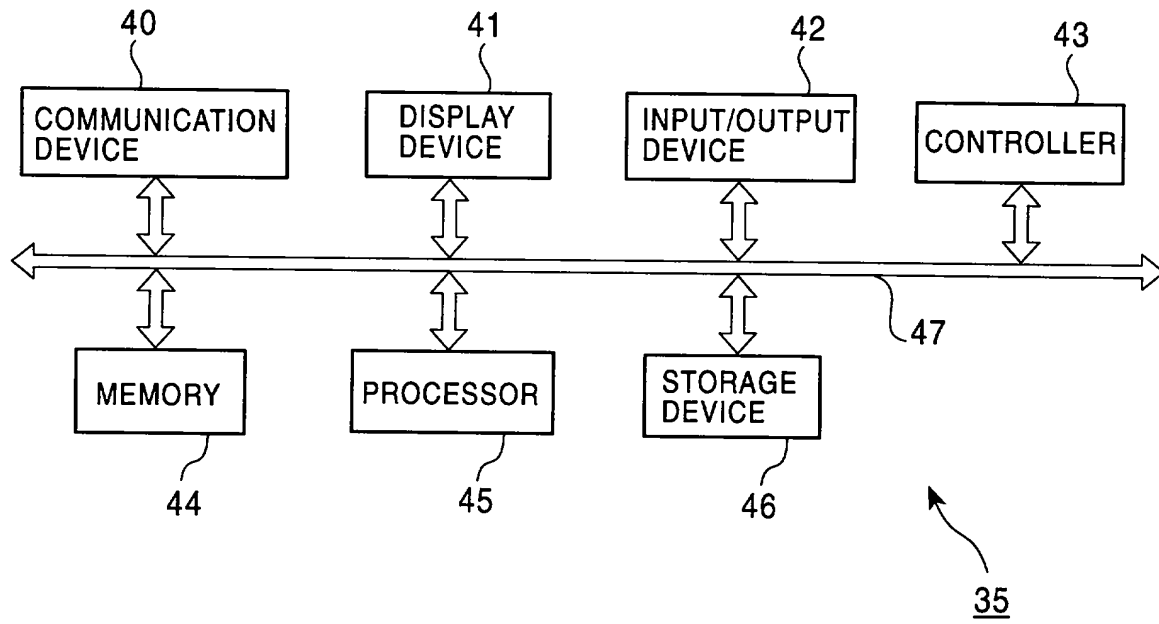
366240 2009160

FIG.1



866220 20090760

FIG. 2



866320 20092160

FIG. 3

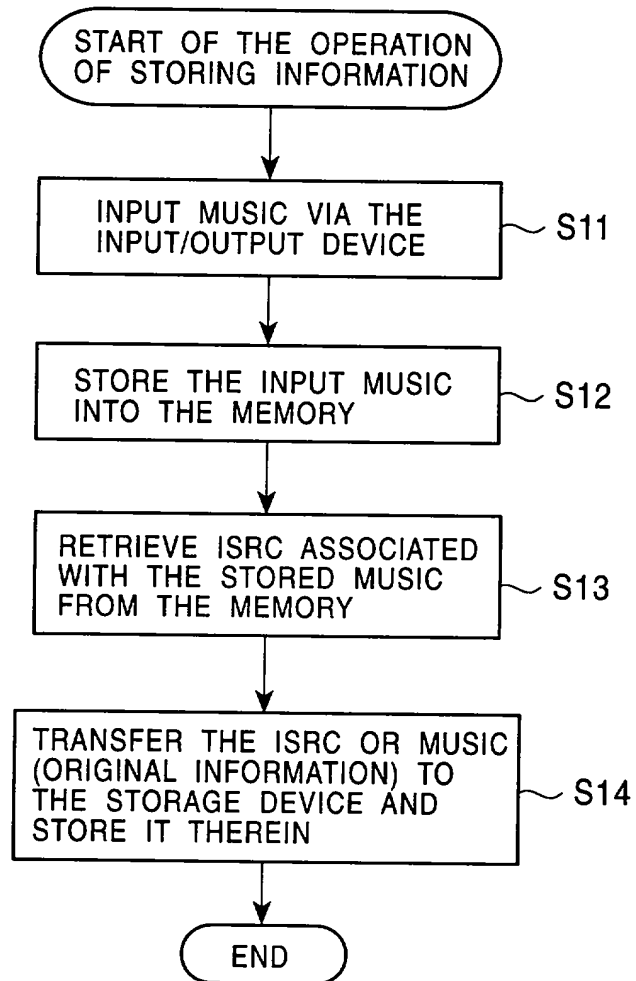


FIG. 4

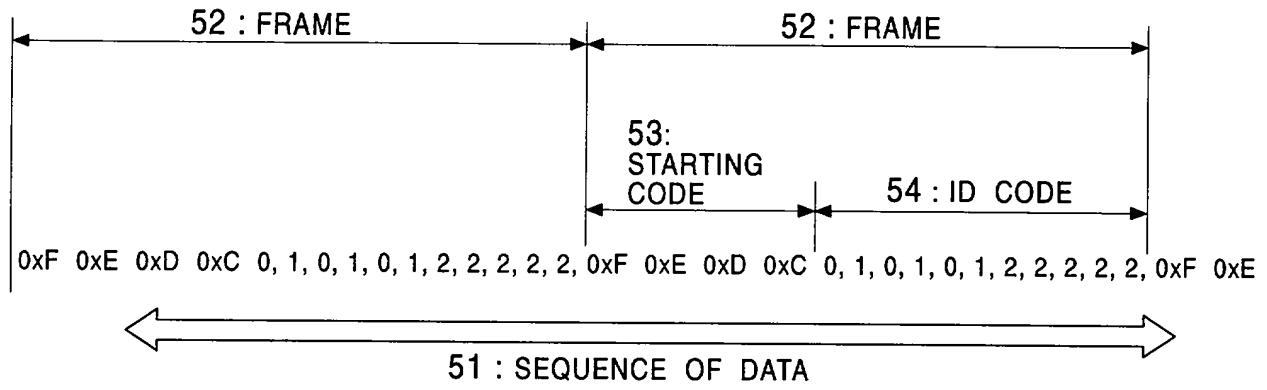


FIG. 5

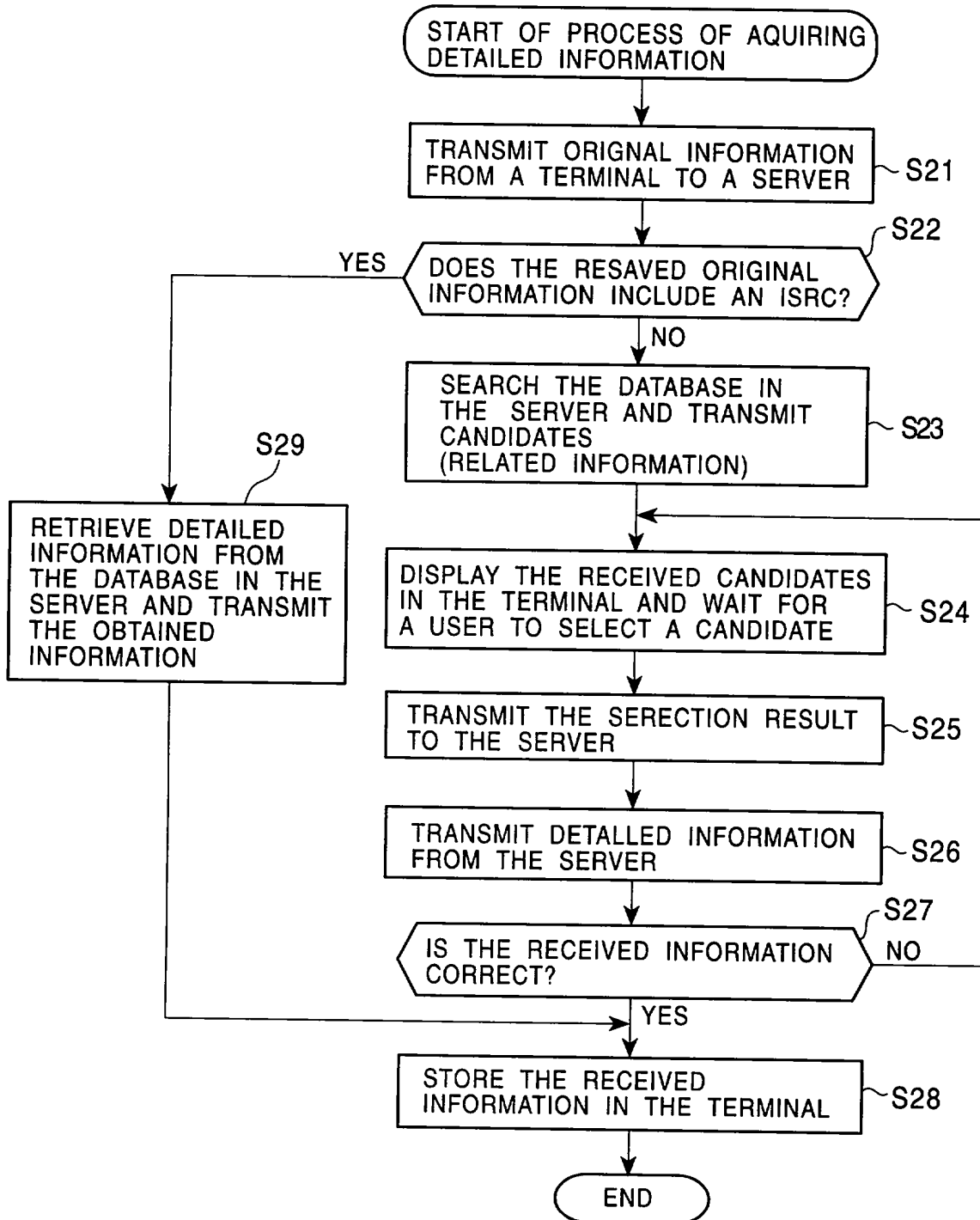


FIG. 6

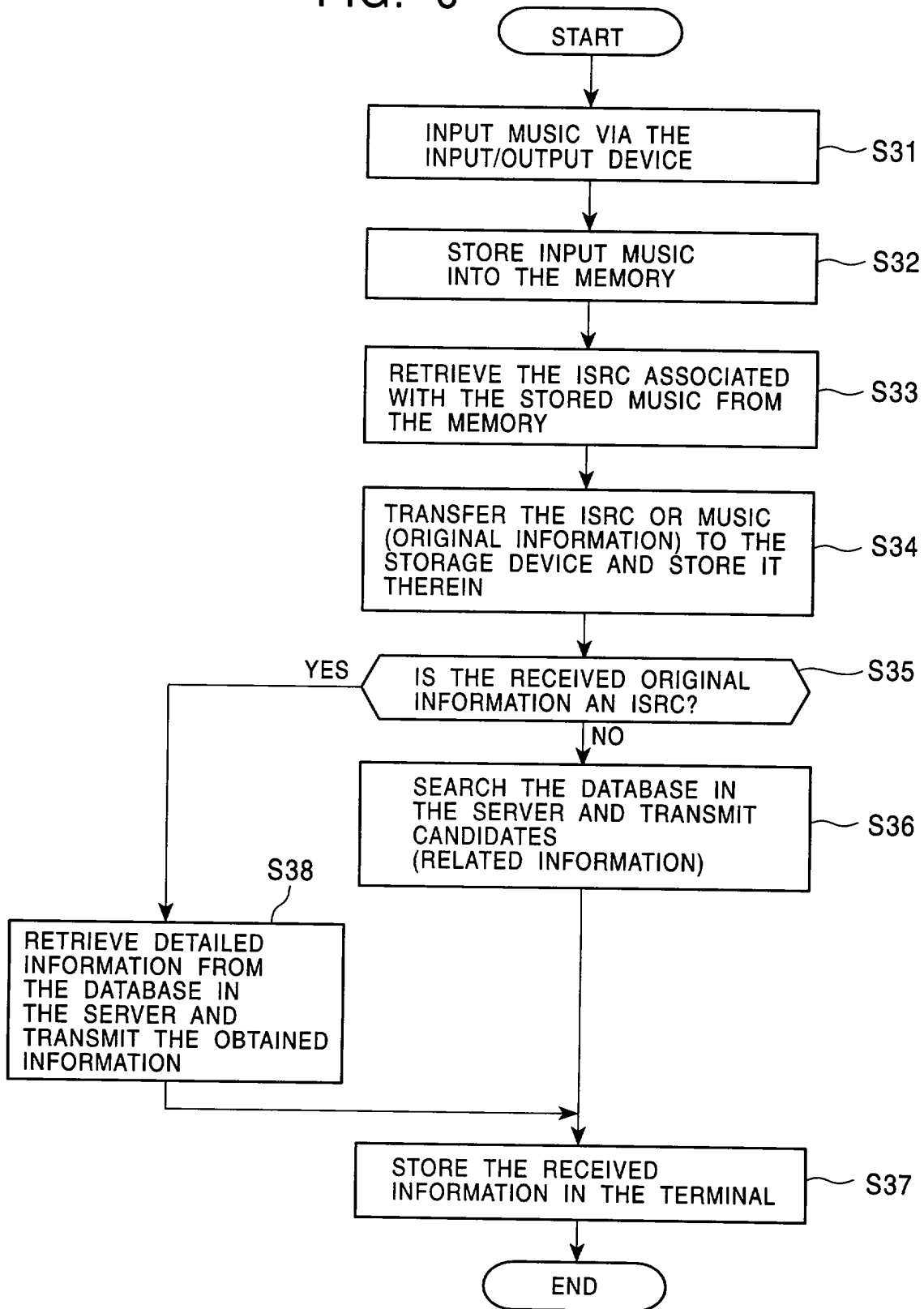
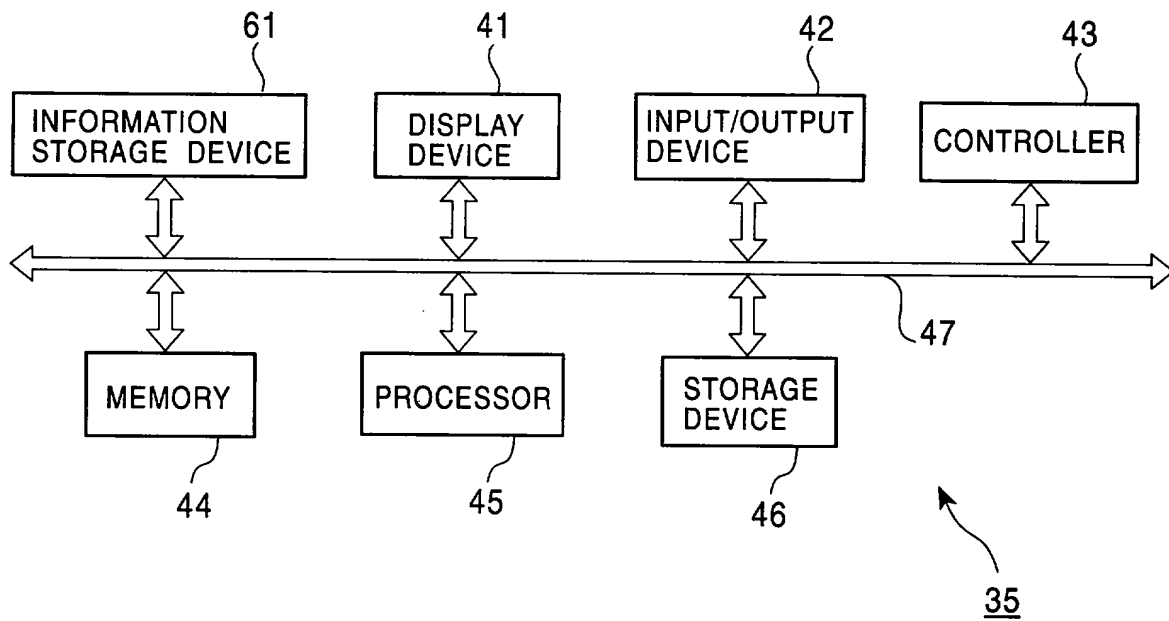


FIG. 8



Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。	As a below named inventor, I hereby declare that:
私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。	My residence, post office address and citizenship are as stated next to my name.
下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。	I believe I am the original, first and sole inventor (if only one named is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled. INFORMATION PROCESSING APPARATUS AND METHOD, INFORMATION PROCESSING SYSTEM, AND TRANSMISSION MEDIUM
上記発明の明細書（下記の欄でx印がついていない場合は、本書に添付）は、 __月__日に提出され、米国出願番号または特許協定条約国際出願番号を____とし、 （該当する場合）____に訂正されました。	the specification of which is attached hereto unless the following box is checked: <input type="checkbox"/> was filed on ____ as United States Application Number or PCT International Application Number ____ and was amended on ____ (if applicable).
私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
私は、連邦規則法典第37編第1条56項に定義されるとおり、特許資格の有無について重要な情報を開示する義務があることを認めます。	I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.
私は、米国法典第35編119条(a)-(d)項又は365条(b)項に基づき下記の、米国以外の国の少なくとも一ヵ国を指定している特許協力条約365(a)項に基づき国際出願、又は外国での特許出願もしくは発明者証の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者証の外国出願を以下に、枠内をマークすることで、示しています。	I hereby claim foreign priority under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.
Prior Foreign Application(s) 外国での先行出願 P09-203055 (Number) (番号) JAPAN (Country) (国名)	Priority Not Claimed 優先権主張なし JULY 29, 1997 (Day/Month/Year Filed) (出願年月日)

<p align="center">Japanese Language Declaration 日本語宣言書</p>			
<p>(Number) (番号)</p>		<p>(Country) (国名)</p>	
		<p>(Day/Month/Year Filed) (出願年月日)</p>	
<p>私は、第35編米国法典119条(e)項に基いて下記の米 国特許出願規定に記載された権利をここに主張いたします。</p>		<p>I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.</p>	
<p>(Application No.) (出願番号)</p>		<p>(Filing Date) (出願日)</p>	
		<p>(Application No.) (出願番号)</p>	
		<p>(Filing Date) (出願日)</p>	
<p>私は、下記の米国法典第35編120条に基いて下記の米 国特許出願に記載された権利、又は米国を指定している特許 協力条約365条(c)に基づき権利をここに主張します。また、本出願の各請求範囲の内容が米国法典第35編112条 第1項又は特許協力条約で規定された方法で先行する米国特 許出願に開示されていない限り、その先行米国出願書提出日 以降で本出願書の日本国内または特許協力条約国際提出日ま での期間中に入手された、連邦規則法典第37編1条56項 で定義された特許資格の有無に関する重要な情報について開 示義務があることを認識しています。</p>		<p>I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.</p>	
<p>(Application No.) (出願番号)</p>		<p>(Filing Date) (出願日)</p>	
		<p>(Status: Patented, Pending, Abandoned) (現況: 特許許可済、係属中、放棄済)</p>	
<p>(Application No.) (出願番号)</p>		<p>(Filing Date) (出願日)</p>	
		<p>(Status: Patented, Pending, Abandoned) (現況: 特許許可済、係属中、放棄済)</p>	
<p>私は、私自身の知識に基づいて本宣言書中で私が行なう表 明が真実であり、かつ私の入手した情報と私の信じるところ に基づき表明が全て真実であると信じていること、さらに故 意になされた虚偽の表明及びそれと同等の行為は米国法典第 18編第1001条に基づき、罰金または拘禁、もしくはそ の両方により処罰されること、そしてそのような故意による 虚偽の声明を行えば、出願した、又は既に許可された特許 の有効性が失われることを認識し、よってここに上記のごと く宣誓を致します。</p>		<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may be jeopardize the validity of the application or any patent issued thereon.</p>	

Japanese Language Declaration 日本語宣言書			
委任状： 私は下記の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。（弁理士、または代理人の氏名及び登録番号を明記のこと）		POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark office connected therewith:	
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